

Title (en)  
SECRET DISTRIBUTION SYSTEM, DISTRIBUTION DEVICE, DISTRIBUTION MANAGEMENT DEVICE, ACQUISITION DEVICE, PROCESSING METHODS FOR SAID DEVICES, SECRET DISTRIBUTION METHOD, PROGRAM, AND RECORDING MEDIUM

Title (de)  
GEHEIMES VERTEILUNGSSYSTEM, VERTEILUNGSVORRICHTUNG, VERTEILUNGSVERWALTUNGSVORRICHTUNG, ERFASSUNGSVORRICHTUNG, VERARBEITUNGSVERFAHREN FÜR SOLCHE VORRICHTUNGEN, GEHEIMES VERTEILUNGSVERFAHREN SOWIE PROGRAMM UND AUFZEICHNUNGSMEDIUM DAFÜR

Title (fr)  
SYSTÈME DE DISTRIBUTION DE SECRET, DISPOSITIF DE DISTRIBUTION, DISPOSITIF DE GESTION DE DISTRIBUTION, DISPOSITIF D'ACQUISITION, PROCÉDÉS DE TRAITEMENT POUR LESDITS DISPOSITIFS, PROCÉDÉ DE DISTRIBUTION DE SECRET, PROGRAMME ET SUPPORT D'ENREGISTREMENT

Publication  
**EP 2423904 A4 20130626 (EN)**

Application  
**EP 10767169 A 20100423**

Priority  

- JP 2010057274 W 20100423
- JP 2009106031 A 20090424

Abstract (en)  
[origin: EP2423904A1] A secure secret sharing system is implemented. Shares  $SH(\pm, h(\pm))$  are generated by secret sharing of secret information separately for each subset  $SUB(\pm)$ ; each of share management apparatuses  $PA(\pm, h(\pm))$  generates a shared secret value  $DSH(\pm, h(\pm))$  by performing a common operation to a corresponding share  $SH(\pm, h(\pm))$  and common information containing a common value  $\tilde{A}(\pm)$  shared in each subset  $SUB(\pm)$ ; and an acquisition apparatus generates a reconstructed secret value  $SUBSK(\pm)$  by reconstruction processing for each subset  $SUB(\pm)$ , using a plurality of shared secret values  $DSH(\pm, h(\pm))$  corresponding to the same subset  $SUB(\pm)$ , and generates generation information SK by using the reconstructed secret values  $SUBSK(\pm)$ .

IPC 8 full level  
**H04L 9/08** (2006.01); **G06F 21/60** (2013.01); **G06F 21/62** (2013.01); **G09C 1/00** (2006.01); **H04L 9/30** (2006.01)

CPC (source: EP KR US)  
**G09C 1/00** (2013.01 - KR); **H04L 9/085** (2013.01 - EP US); **H04L 9/3073** (2013.01 - EP US)

Citation (search report)  

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Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2423904 A1 20120229; EP 2423904 A4 20130626; EP 2423904 B1 20150107**; CN 102396012 A 20120328; CN 102396012 B 20140507; ES 2532332 T3 20150326; JP 2013178589 A 20130909; JP 5337238 B2 20131106; JP 5562475 B2 20140730; JP WO2010123114 A1 20121025; KR 101344353 B1 20131224; KR 20120034156 A 20120410; US 2012030464 A1 20120202; US 8549290 B2 20131001; WO 2010123114 A1 20101028

DOCDB simple family (application)  
**EP 10767169 A 20100423**; CN 201080016595 A 20100423; ES 10767169 T 20100423; JP 2010057274 W 20100423; JP 2011510381 A 20100423; JP 2013133392 A 20130626; KR 20117023961 A 20100423; US 201013264445 A 20100423